

**RED TOP**

**METAL LATH**

**AND STEEL BUILDING**

**PRODUCTS**



**PRODUCTS OF  
UNITED STATES GYPSUM COMPANY**

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## U S G SALES OFFICES

Atlanta, Ga.....	1440 Citizens and Southern Bank Bldg.
Baltimore, Md.....	1402 Standard Oil Bldg.
Birmingham, Ala.....	1203 Comer Bldg.
Boston, Mass.....	731 Statler Office Bldg.
Buffalo, N. Y.....	514 Brisbane Bldg.
Chicago, Ill.....	300 West Adams St.
Cincinnati, Ohio.....	3012 Carew Tower
Cleveland, Ohio.....	627 Hanna Bldg.
Dallas, Texas.....	1301 Santa Fe Bldg.
Denver, Colo.....	514 18th St.
Detroit, Mich.....	10090 W. Jefferson St.
Indianapolis, Ind.....	Architects and Builders Bldg.
Kansas City, Mo.....	438 Ward Parkway
Los Angeles, Cal.....	807 Architects Bldg.
Milwaukee, Wis.....	439 W. Oregon St.
Minneapolis, Minn.....	1310 Foshay Tower
New York City.....	30 Rockefeller Plaza
Omaha, Nebr.....	312 Woodmen of the World Bldg.
Philadelphia, Penna.....	1616 Walnut St.
Pittsburgh, Penna.....	712 Grant Bldg.
Portland, Ore.....	301 Spalding Bldg.
St. Louis, Mo.....	1047 Big Bend Boulevard
San Francisco, Cal.....	2501 Harrison Street
Washington, D. C.....	15th and K Streets, N. W.

## CANADIAN GYPSUM CO., LTD.

Montreal, Que., Can.....	1108 Dominion Square Bldg.
Toronto, Ont., Can.....	1221 Bay Street



# RED TOP METAL LATH AND STEEL BUILDING PRODUCTS

THE United States Gypsum Company manufactures and distributes under the brand name Red Top\*, a complete line of Expanded Metal Lath Products, Lathing Accessories and various Steel Building and Industrial Specialties. These items are illustrated and described in this handbook.

In addition to Red Top Metal Lath Products, all brands of the Youngstown Pressed Steel Company and the Northwestern Expanded Metal Company can be furnished. The metal lath manufacturing facilities, brands, etc., of these companies were acquired by USG in 1930.

Complete stocks are maintained at the U S G Steel Products Plants at Warren, Ohio and Chicago, and 21 conveniently located warehouses. These items can also be had from nationally located USG mills or warehouses in mixed car shipments with other USG Building Materials.

*Manufactured By*

UNITED STATES  
GYPSUM COMPANY  
STEEL PRODUCTS DIVISION

\* Reg. Trademark

# U S G STEEL PRODUCTS PLANTS — WHERE RED TOP METAL LATH PRODUCTS ARE MADE



## WARREN, OHIO PLANT

The U S G Steel Products Plant at Warren, Ohio, is a modern, up-to-the-minute manufacturing plant. It has facilities for manufacturing practically all the items listed in this book. Being located in the heart of the steel district, it can draw upon the local sources of supply for materials.



## CHICAGO PLANT

The U S G Steel Products Plant in Chicago was formerly a metal lath manufacturing plant of the Northwestern Expanded Metal Company. It is located within an area in which railroad shipping facilities make possible quickest carload deliveries to central-west and southwestern points.

# MATERIAL USED IN MANUFACTURE OF RED TOP METAL LATH AND ACCESSORY PRODUCTS

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*Open Hearth Steel*—Open Hearth Steel is a mixture of iron and carbon with few impurities such as phosphorus, manganese, etc. The greater percentage of metal lath and lathing accessory products is manufactured from Open Hearth Steel.

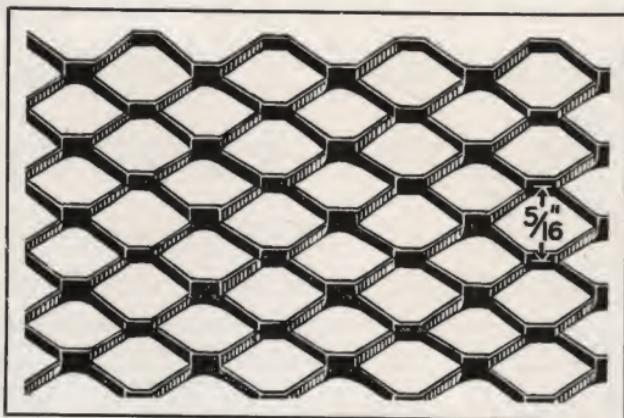
*Copper Bearing Steel*—Copper Bearing Steel has been proved by tests over a number of years as superior in resisting corrosion and acid actions. It is made by the same method as Open Hearth Steel, but approximately  $\frac{1}{4}$  of 1 per cent copper is added.

*Armco Ingots Iron*—This is a pure iron, exceptionally free from impurities. This material in the pure state is highly rust resisting. The trademark Armco is identified with many important building materials.

*Galvanized Steel*—The term “galvanized steel” as applied to metal lath and lathing accessories means that the product has been fabricated from Galvanized Steel. The Galvanized Steel used in Red Top Metal Lath Products is a high quality, tight-coat material.

- For location of U S G mills and warehouses from which Red Top Metal Lath products can be shipped in mixed cars with other U S G Products, see list on inside back cover.

# RED TOP DIAMOND



(Small "Junior" Mesh)

A base and reinforcement for all types of plain and ornamental plastering, and fireproofing.

The mesh is one-sixth smaller than regular diamond mesh lath — a feature which provides many distinct advantages and makes possible "steel-strengthened plastering" at low cost.

Red Top Diamond Mesh Metal Lath sheets are rigid and are easy to erect over all types of construction. They provide a smooth, firm working base for the plasterer and "keys" perfectly.

The "small (junior) diamond" type of Diamond Mesh Lath is standard. The "regular" ( $\frac{3}{8}$ -inch) Diamond Mesh can be also furnished when specified. (Patent on "junior diamond mesh lath" is held by the United States Gypsum Company.)

## DATA

Type of Steel	Weights per Square Yard	Size Sheets and Packing
Open hearth steel, painted black.....	2.2, 2.5, 3.0, 3.4 lbs.	
Copper bearing steel, painted black.....	2.2*, 2.5*, 3.0, 3.4 lbs.	
Cut from galvanized sheets .....	2.5, 3.4 lbs.	
Armco Ingot Iron, painted black.....	2.5*, 3.0*, 3.4 lbs.	27" x 96" (Standard) packed 10 sheets (20 sq. yds.) per bundle, and 24" x 96" packed 9 sheets (16 sq. yds.) per bundle.

\*Items marked (\*) are special to order.

# MESH METAL LATH

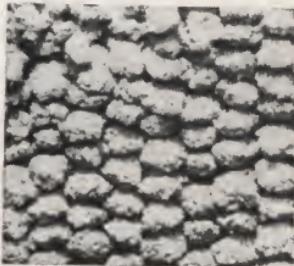


## EASY TO ERECT

The sheets are rigid and do not wrap on the lather's shoulder. This rigidity makes erection on ceilings much easier. Whether erected either by nailing to wood or tying to channels, the rigid sheets form a tight level surface that eliminates truing up.

## QUICK COVERAGE

A greater area per hour can be scratched over the true, even surface of Red Top. The small meshes require less mortar yet assure complete imbedment of the steel. The use of Red Top assures a worthwhile economy of time and labor.



## PERFECT KEYING

Note the uniformity of the keys as shown in the above illustration of the back of the lath—a superb bond. The plaster flows through the meshes forming a covering on the back that is virtually equivalent to back-plastering the steel.

## NO PLASTER WASTE

The perfect keys formed by the small meshes of Red Top keep the plaster where it is wanted—on the lath. These keys are ample but not so large that they will shear off or cause waste through dropping of plaster back of the lath.

# RED TOP METAL LATH

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## METAL LATH USES

Metal Lath has distinguished itself as the logical base and reinforcement for all types of plain and ornamental plastering. Its function is to help prevent plaster cracks and streaks and to provide an economical method of fireproofing.

**Reinforcing Value**—Metal Lath reinforced walls and ceilings are better able to resist the strains occasioned by settlement of foundations, wind storms, earthquakes, impact, vibration, etc., and to retain their firm, smooth surface, unmarred by cracks. Plaster applied over Metal Lath dries evenly.

**Fire Resistive Qualities**—Metal Lath walls and ceilings covered with three-coat plastering have been accorded a one hour Fire Safety rating by the Underwriters.

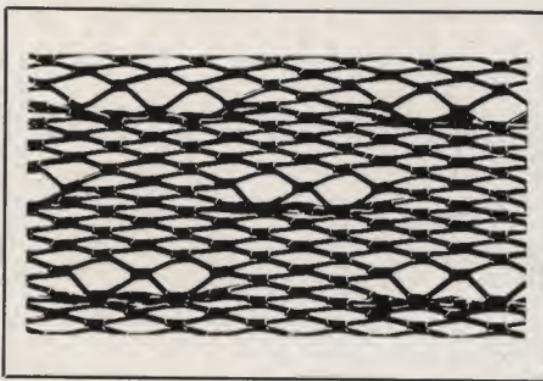
It therefore constitutes a most economical form of fire protection for homes, apartment and public buildings, hospitals, schools, etc. In general construction, Metal Lath should be used at as many of the following points as possible:

- 1—All stud bearing partitions and stud exterior walls including fire stops.
- 2—All ceilings, particularly under inhabited floors, over heating plant, fuel storage, etc.
- 3—at chimney breasts, around flues and back of kitchen ranges.
- 4—Stairwells and under stairs.

**For Economy in Floor Space** use 2-inch solid Metal Lath and plaster partitions on non-bearing walls and also for stair and elevator enclosures.

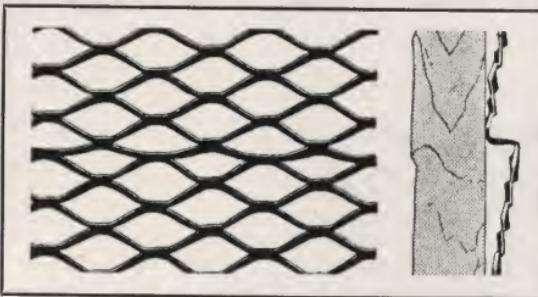
**Specifications**—“Standard Metal Lath Specifications” in book form will be furnished.

# SELF-FURRING LATH



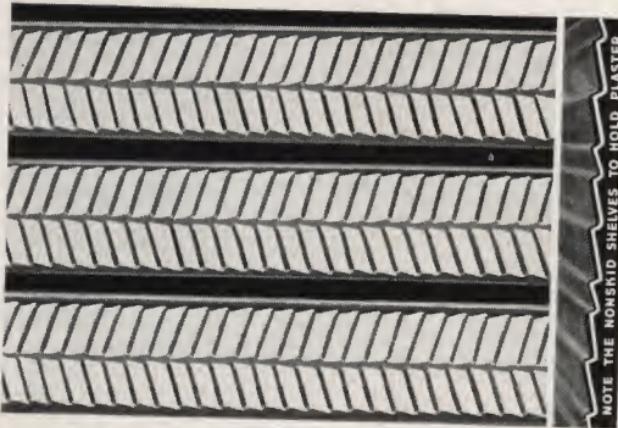
Self-Furring Metal Lath is a type of Diamond Mesh Lath, having "dimple" indentures,  $\frac{3}{8}$ -inch deep formed in the sheet, staggered  $1\frac{1}{2}$  inches apart throughout the sheet. It is widely used as a base for stucco or wherever a self-furring lath is required. Furnished in same weights, materials and size as Red Top Diamond Mesh Lath.

# CORRUGATED LATH



Corrugated Lath is a Diamond Mesh Lath, with continuous "straight line" corrugations running lengthwise through sheet, spaced  $1\frac{5}{8}$  inches apart. This type of self-furring lath is preferred by many for stucco construction and some types of interior plastering. Furnished in same weights, materials and size as Red Top Diamond Mesh Lath.

# RED TOP $\frac{1}{8}$



Here's a distinctive type of flat rib lath that provides many very real advantages for the lather and plasterer. It is exclusive in design. Its narrow "Z" ribs ( $\frac{1}{8}$ " high— $1\frac{1}{2}$ " on center) add exceptional rigidity and provide shelves which hold the wet plaster in place on both front and back. By the combination of these sturdy ribs and its "herringbone" type of mesh for additional rigidity, every step is made easy and without waste of plaster. Positive economy.

Red Top  $\frac{1}{8}$ " Z-Rib Lath is suitable for nailing on wood construction or for tying on metal furring. It is designed for both the modest cottage and the modern skyscraper.

The Lather will like Red Top  $\frac{1}{8}$ " Z-Rib Lath because it is smooth, rigid and true—its edges meet perfectly on laps—it goes up easily. Mechanically correct.

The Plasterer will like Red Top  $\frac{1}{8}$ " Z-Rib Lath because it is smooth under the trowel—forms a perfect key—takes just the right amount of plaster for a satisfactory job—does not waste plaster, no droppage—insures a thorough reinforcement.

Architects, Contractors and Owners will like Red Top  $\frac{1}{8}$ " Z-Rib Lath, too, because it eliminates lath streaks and unsightly cracks—insures a perfect surface for decoration and a highly satisfactory job for the life of the building.

# Z-RIB LATH

Red Top  $\frac{1}{8}$ " Z-Rib Lath has demonstrated its value in the finest buildings everywhere.

## DATA

Type of Steel	Weights per Square Yard	Size Sheets and Packing
Open hearth steel, painted black.....	2.75, 3.0, 3.4 lbs.	
Copper bearing steel, painted black.....	2.75*, 3.0*, 3.4 lbs.	
Cut from galvanized sheets.....	3.4 lbs.	
Armco Ingot Iron, painted black.....	3.4* lbs.	* 24" x 96" packed 9 sheets (16 sq. yds. per bundle).

\*Items marked (\*) are special to order.

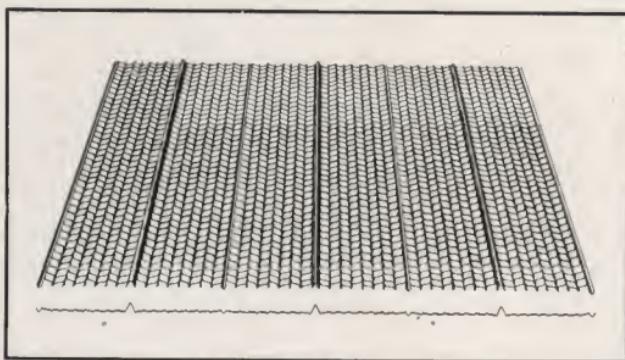


*Red Top  $\frac{1}{8}$ " Z-Rib Lath is ideal for partitions and ceilings. It is easy to erect on either wood or metal studs or furlings and provides a rigid base to plaster over.*



*Note the fine keying qualities. The "herringbone" type of mesh is the right size for true economy and quick coverage. Keys are ample but not wasteful.*

# RED TOP $\frac{3}{8}$ " RIB

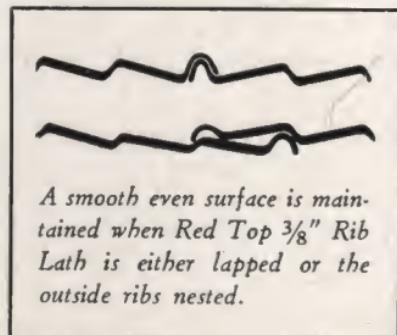


An exceptionally rigid self-furring base and reinforcement for plastering and light concrete slab construction—floors, etc.

The outstanding advantages of Red Top  $\frac{3}{8}$ " Rib Lath are:  
1—Unusual rigidity; 2—Easy to handle and erect; 3—Straight parallel sides and ends; 4—Outside ribs nest or lap; 5—Works well under trowel; 6—Holds concrete on floor construction.

For plastering it is especially desirable for ceilings under the joist type of reinforced concrete floor or when supports are more than 16 inches on centers. Its use effects a substantial saving in furring channels and labor.

Red Top  $\frac{3}{8}$ " Rib Lath is also widely used as a reinforcing in concrete fireproof floor construction. The sheets are rigid in both directions and present a surface which retains the concrete mix and gives a uniform floor slab.



*A smooth even surface is maintained when Red Top  $\frac{3}{8}$ " Rib Lath is either lapped or the outside ribs nested.*

# METAL LATH

## DATA

Type of Steel	Weights per Square Yard	Size Sheets and Packing
Open hearth steel, painted black.....	2.5*, 3.0, 3.4, 4.0 lbs.	} 24" x 96", packed 9 sheets (16 sq. yds.) per bundle.
Copper bearing steel, painted black.....	2.5*, 3.0*, 3.4, 4.0* lbs.	
Cut from galvanized sheets.....	3.4, 4.0* lbs.	
Armco Ingot Iron, painted black.....	3.4, 4.0* lbs.	

\*Items marked (\*) are special to order.

*Installing 3/8" Rib Lath  
on steel joists for laying  
of concrete floor. Attachment  
clips are listed on  
page 38.*



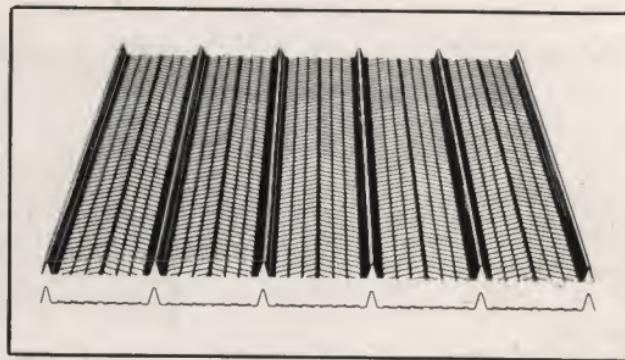
*Attaching Red Top 3/8"  
Rib Lath to concrete  
joists for ceiling. Note  
the wide spacing of  
supports.*

## DATA—RED TOP 3/8" RIB LATH

Weight per Sq. Yd. Pounds	Recommended Spacings		
	Walls	Ceilings	Floors
2.5	16"-20"	12"-16"	Average joist spacing is 16" to 28".
3.0	19"-24"	18"-22"	Use 4-lb. lath for the wider spans.
3.4	24"-30"	22"-28"	Use 3.4-lb., and under ideal con-
4.0	32"-36"	24"-30"	ditions, 3-lb. lath for smaller spans.

Refer to "Standard Metal Lath Specifications" for complete erection details.  
Copy gladly furnished on request.

# RED TOP $\frac{3}{4}$ "



The exceptional stiffness of this heavy-weight self-furring  $\frac{3}{4}$ " Rib Lath makes it a most effective centering and reinforcement for concrete roofs and floors, and for plaster partitions and ceilings on extremely wide spacing of supports. It can be used to great advantage, also on many forms of special work such as column and beam protection, balconies, galleries, bath houses, tanks, fences and walls.

To the Architect, Engineer and Contractor, Red Top  $\frac{3}{4}$ " Rib Lath offers almost endless possibilities for replacing the older forms of centering and reinforcement for concrete, economically and with greater satisfaction. It permits the use of concrete in many forms of construction in which it has heretofore been considered impractical.

Specifications for the use of  $\frac{3}{4}$ " Rib Lath and tables of safe loads will be furnished on request.

## D A T A

Type of Steel	Weights per Square Foot	Size Sheets and Packing
Open hearth steel, painted black.....	.50, .60, .75 lbs.	2 ft. wide by 8, 10, or 12 ft. long. Other intermediate lengths supplied by cutting down from standard stock lengths. Waste will be charged for. Normally packed 9 sheets per bundle, but orders filled for whatever number of sheets specified.
Copper bearing steel, painted black.....	.50*, .60*, .75* lbs.	
Cut from galvanized sheets.....	.50 lbs.	
Armco Ingot Iron, painted black.....	.75 lbs.	

\*Items marked (\*) are special to order.

# RIB LATH

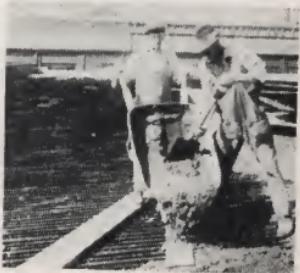
## CONCRETE FLOORS

In using Red Top  $\frac{3}{4}$ " Rib Lath as a centering for concrete floors no supports are necessary except for long spans or extra thicknesses. The small size mesh prevents undue seepage.

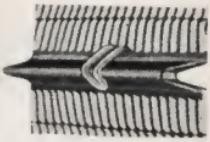


## CONCRETE ROOFS

In flat, steep-pitched or saw-tooth concrete roofs, Red Top  $\frac{3}{4}$ " Rib Lath removes the need of costly form work and extra reinforcement material. Two inches of concrete is usually ample.



## ATTACHMENT CLIPS



No. 1—Side Clip



No. 2—Beam Clip

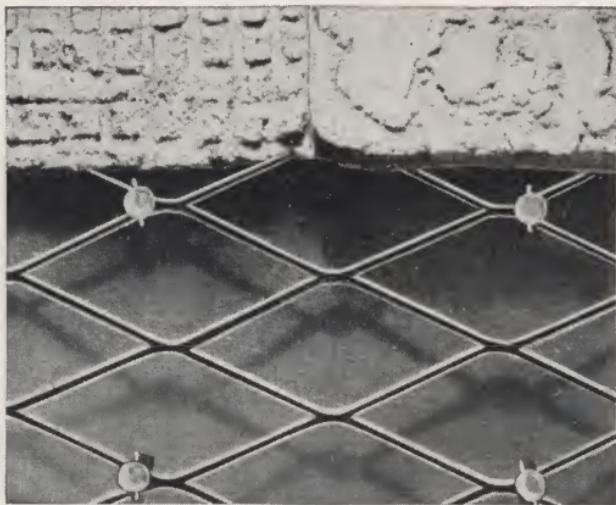
### No. 1—SIDE CLIP

For fastening side laps of  $\frac{3}{4}$ " Rib Lath securely together. 3 to 5 foot spans should have one clip at center. 6 to 9 foot spans should have two clips, 9 to 12 foot spans should have 3 clips, equally spaced from supports and each other. Weight per 1000 pieces, 10 lbs.

### No. 2—BEAM CLIP

For fastening  $\frac{3}{4}$ " Rib Lath to I-Beam or channels in floor or roof construction. The clip is placed on the I-Beam or channel under the rib, a prong coming through the meshes on each side of the rib. Weight per 1000 pieces, 50 lbs.

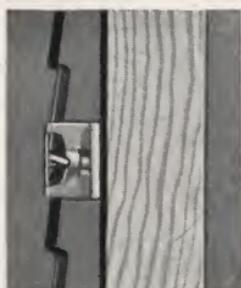
# RED TOP EXPANDED



A scientifically correct expanded metal stucco base and reinforcement which provides a continuous straight line reinforcing for stucco applied by hand or machine placed (gunited). Also used in many forms of light concrete work.

The diagonal strands of the  $1\frac{3}{8} \times 3\frac{1}{8}$  inch diamond meshes provide an ideal distribution of steel capable of overcoming initial shrinkage, temperature changes and wind stresses; and also protects the stucco against unusual shocks and impacts.

Red Top Expanded Metal Stuccomesh should be applied with Red Top Stucco Furring Nails for most satisfactory results. Furring Nails provide a method of furring that places the reinforcement uniformly in the center of the stucco slab—where reinforcement is needed.



*This cross-section view illustrates how stucco mesh is furred from the backing with the Stucco Furring Nails.*

# METAL STUCCOMESH

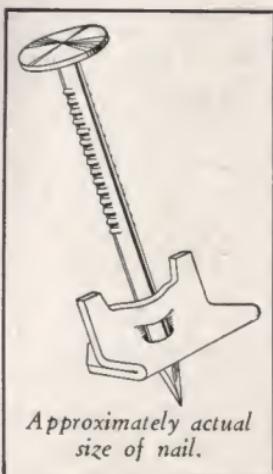
## DATA

Type of Steel	Weights per Square Yard	Size Sheets and Packing
Open hearth steel, painted black.....	1.8, 3.6 lbs.	48" x 99", packed 10 sheets (36 $\frac{2}{3}$ sq. yds.) per bundle.
Copper bearing steel, painted black.....	1.8, 3.6 lbs.	
Cut from galvanized sheets.....	1.8*, 3.6* lbs.	

\*Items marked (\*) are special to order.



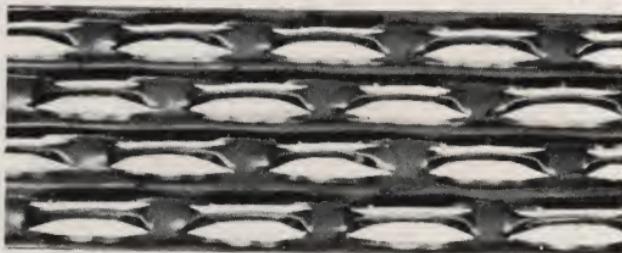
## RED TOP STUCCO FURRING NAILS



A 1 $\frac{1}{2}$ -inch nail equipped with a sliding spacer having nibs which catch and firmly hold the mesh  $\frac{3}{8}$  inches from the backing. It eliminates furring, thus saving time and further reducing cost.

Nails are packed in boxes of 850 nails. One box is estimated as sufficient for fifty square yards of stucco surface. These boxes are packed ten to a case (8,500 nails) weighing approximately 70 lbs.

# BOSTWICK SHEETLATH



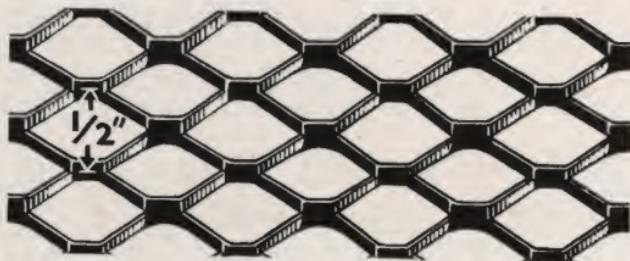
A type of (sheet) metal lath especially adaptable for tile backing. It has a certain structural value through its resistance to stretching which is important in reinforcement for tile backing.

**Weight**—4.5 lbs. per square yard, painted black; 5.2 lbs. per square yard, galvanized steel.

**Materials**—Open hearth steel, painted black and galvanized steel.

**Sheet Size**—24x96 inches, packed 9 sheets (16 sq. yds.) per bundle.

## RED TOP B. V. LATH



A reinforcement for Concrete Burial Vaults, slab work, stucco, etc. Also used as a plastering base for work requiring a very heavy lath. Can also be had "Corrugated."

**Weights**—3.4 lbs. per square yard. Also supplied in the 3.0 and 2.5 lb. weights, on order.

**Materials**—Open hearth steel, unpainted; Galvanized steel in the 3.4 lb. weight.

**Sheet Size**—24 x 96 inches, packed 9 sheets (16 sq. yds.) per bundle.

# PAPER BACK FABRIC

## PS-16 and PS-14



A plaster and stucco reinforcement of No. 16 gauge (PS-16) or No. 14 gauge (PS-14) 2 x 2 inch welded wire fabric with 180 pound kraft paper backing. Also furnished with 180 pound duplex waterproof paper on special order without extra cost.

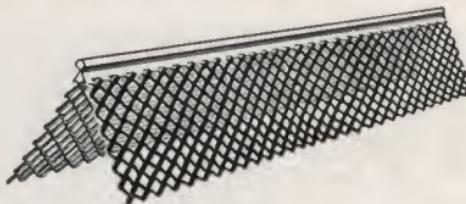
Standard size sheets are 34 x 54 inches. Packed 51 sheets (70 square yards) per crate. Special size sheet 34 x 84 inches supplied on order without extra cost. Galvanized hook head nails (5 lbs. per crate) for application are included without extra charge. Blued nails supplied on request without extra cost.

### CRATING TABLE FOR CORNER BEADS *Listed on Following Pages*

Lengths of Bead	Pieces Per Crate	Feet Per Crate
		(Nos. 1A, 2A, 4A, 5A, 10A, and 12A)
6 ft.	90	540
7 ft.	80	560
8 ft.	70	560
9 ft.	60	540
10 ft.	50	500
12 ft.	50	600

All Corner Beads (except Nos. 1A and 10A Expansion Beads) also packed and shipped in bundles (uncrated) of 10 pieces of same length to the bundle, at customer's request. Nos. 1A and 10A Expansion Beads shipped crated only. All other Corner Beads packed in convenient size bundles or crates to fit order.

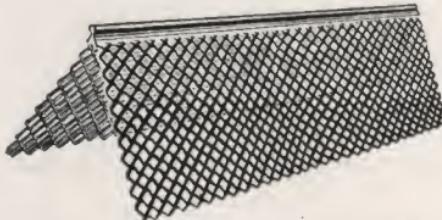
# BATHING ACCESSORIES



## No. 1A—EXPANDED CORNER BEAD

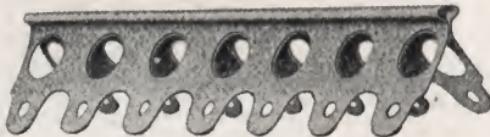
A very efficient, 2½-inch wide expanded flange corner bead for reinforcing plastered corners. Rigid and easy to erect. Provides strong plaster key. Stock lengths—6, 7, 8, 9, 10 and 12 feet. 26 ga. galvanized steel. Weight per 1,000 lin. feet, 250 lbs.

No. 1A also available in 24 ga. galvanized steel, pure zinc, pure copper and 26 ga. galvanized steel "Inner Angle" having reversed flange for internal corners.



## No. 1A—5-INCH EXPANDED BEAD

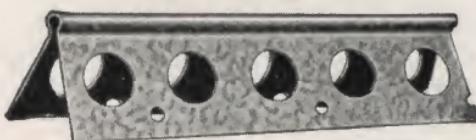
This full five-inch width expanded flange corner bead can be used to advantage on beams, mullions, pilasters, columns, and many other places in all types of buildings, 24 ga. galvanized steel. Stock lengths—6, 7, 8, 9, 10 and 12 feet. Weight per 1,000 lin. feet, 430 lbs.



## No. 2A—SCALLOPED FLANGE BEAD

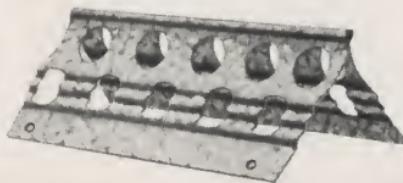
The 1¾-inch flanges provide an ideal nailing surface for irregular corners. Furnishes a true ground and keys well. Stock lengths—6, 7, 8, 9, 10 and 12 feet. 26 ga. galvanized steel. Weight per 1,000 lin. feet, 220 lbs. Also available in 24 ga. steel.

# LATHING ACCESSORIES



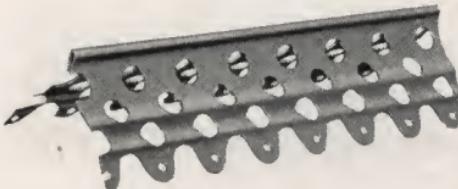
## No. 4A—STANDARD CORNER BEAD

A straight, rigid corner bead which meets the general requirements. Perforated flanges ( $1\frac{1}{4}$  inches wide) provide good plaster key. Stock lengths—6, 7, 8, 9, 10 and 12 feet. 26 ga. galvanized steel. Weight per 1,000 lin. feet, 200 lbs. Also available in 24 ga. steel.



## No. 12A—WIDE FLANGE BEAD

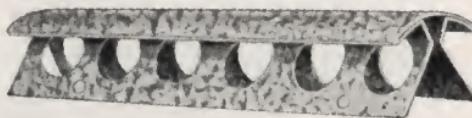
A  $2\frac{1}{2}$ -inch wide, perforated flange bead with exceptional rigidity. Facilitates erection of straight, perfect corners. Stock lengths—6, 7, 8, 9, 10 and 12 feet. 26 ga. galvanized steel. Weight per 1,000 lin. feet, 350 lbs. Also available in 24 ga.



## No. 16A—SCALLOPED FLANGE BEAD

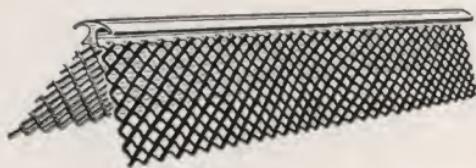
Similar to No. 2A Scalloped Flange Bead except that it has extra wide  $2\frac{1}{2}$ -inch flanges. Stock lengths—6, 7, 8, 9, 10 and 12 feet. 26 ga. galvanized steel. Weight per 1,000 lin. feet, 320 lbs. Also supplied in 24 ga. steel.

# LATHING ACCESSORIES



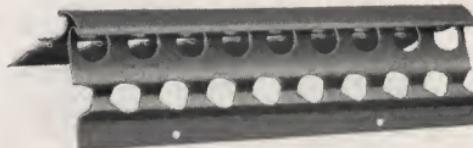
## No. 5A—BULL NOSE CORNER BEAD

A broad nose bead for use in hospitals or wherever a sturdy, rounded corner is required. The nose radius is  $\frac{3}{4}$  inch. Stock length—6, 7, 8, 9, 10 and 12 feet. 26 ga. galvanized steel. Weight per 1,000 lin. feet, 245 lbs. Also available in 24 ga.



## No. 10A—EXPANDED BULL NOSE BEAD

A bull nose bead ( $\frac{3}{4}$ -inch radius) with  $2\frac{1}{2}$ -inch wide flanges of expanded metal. Provides an excellent corner reinforcement for rooms requiring broad, sturdy corners. Stock lengths—6, 7, 8, 9, 10 and 12 feet. 26 ga. galvanized steel. Weight per 1,000 lin. feet, 375 lbs. Also available in 24 ga.



## No. 14A—BULL NOSE CORNER BEAD

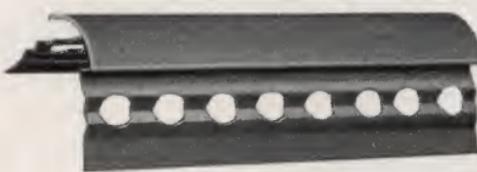
A  $2\frac{1}{2}$ -inch wide, solid flange,  $\frac{3}{4}$ -inch radius bull nose bead. Non-reinforced nose. Rigid flanges make this bead very substantial. Stock lengths—6, 7, 8, 9, 10 and 12 feet. 26 ga. galvanized steel. Weight per 1,000 lin. feet, 420 lbs.

# LATHING ACCESSORIES



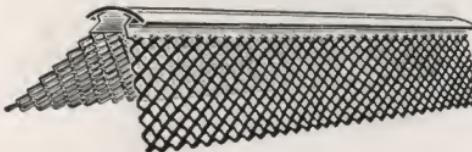
## No. 600A—BULL NOSE BEAD

A bull nose bead identical to No. 14A except that it has a heavy reinforced nose. An extra strong bead. Stock lengths—6, 7, 8, 9, 10 and 12 feet. 26 ga. galvanized steel, weight per 1,000 lin. feet, 570 lbs. Also available in 24 ga.



## No. 603A—BULL NOSE BEAD

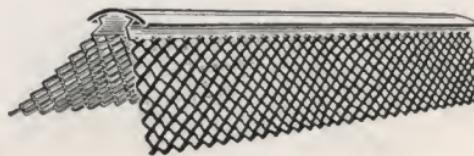
A  $2\frac{7}{8}$ -inch, solid metal flange bull nose bead with  $1\frac{1}{2}$ -inch radius, heavy reinforced nose. Stock lengths—6, 7, 8, 9 and 10 feet. 26 ga. galvanized steel, weight per 1,000 lin. feet, 900 lbs.



## No. 80A—BULL NOSE BEAD

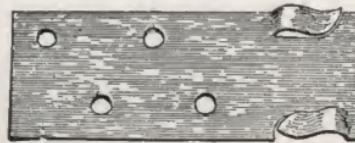
A  $2\frac{1}{2}$ -inch wide expanded flange bull nose bead of  $1\frac{1}{2}$ -inch radius. 16 ga. reinforced nose. Flanges of 24 ga. galvanized steel. Stock lengths—6, 7, 8, 9 and 10 feet. Weight per 1,000 lin. feet, 1,000 lbs.

# LATHING ACCESSORIES



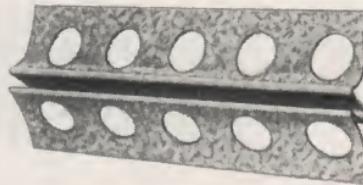
## No. 90A—BULL NOSE CORNER BEAD

A bull nose corner bead identical with No. 80A except that it has a 2-inch radius nose. Ideal for extra broad curved corners. Stock lengths—6, 7, 8, 9, 10 and 12 feet, 24 ga. galvanized steel. Weight per 1,000 lin. feet, 1,050 lbs.



## No. 9A—CORNER BEAD CLIPS

A 3-inch clip attachment for short flange beads, etc., to facilitate erection on irregular corners or where nature of construction makes necessary a wider flange. Made from blued steel. Used more generally with No. 5A Bull Nose Bead. Packed in boxes of 1,000 each weighing 25 lbs.



## No. 8A—PICTURE MOULD

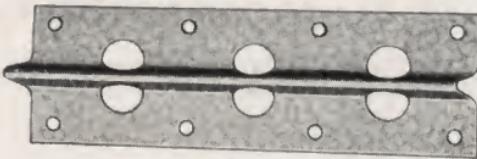
Concealed, plastered-in type. Erected before plastering and acts as a ground to accomplish a true plaster wall line. Stock length—10 feet only, 26 ga. galvanized steel. Weight per 1,000 lin. feet, 260 lbs.

# LATHING ACCESSORIES



## No. 3A—EXPANDED FLUSH BASE GROUND

Forms straight, flush line joint between plastered wall and cement based wainscot. Provides an ideal reinforcement. Stock length—10 feet. 26 ga. Galvanized steel. Weight per 1,000 lin. feet, 230 lbs.



## No. 6A—PLAIN BASE GROUND

A very popular flush type of ground ( $\frac{1}{2}$ -inch) for general use. Very satisfactory. Perforated flanges provides for good bond. Stock length—10 feet. 26 ga. galvanized steel. Weight per 1,000 lin. feet, 160 lbs. Also available in both  $\frac{5}{8}$  and  $\frac{3}{4}$ -inch plaster grounds and in 24 ga.



## No. 7A—CURVED POINT BASE SCREED

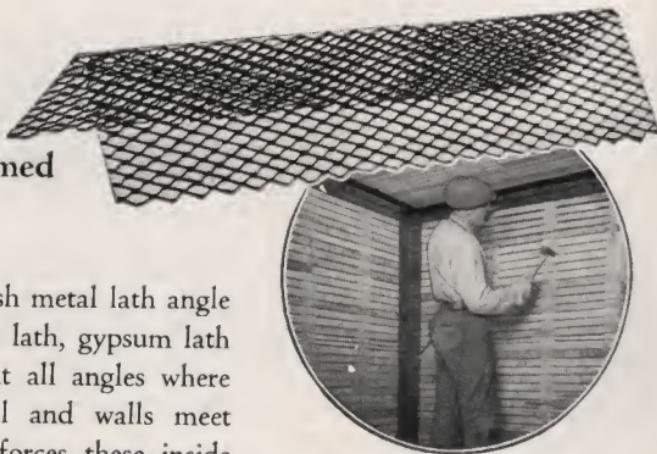
Used as a plastering ground and forms a permanent cap for top of projecting cement, terrazzo and composition bases. For  $\frac{1}{2}$ -inch plaster ground only. Stock length—10 feet, 26 ga. galvanized steel. Weight per 1,000 lin. feet, 195 lbs.

# RED TOP CORNERITE

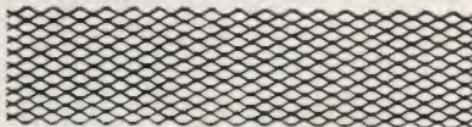
A Quality  
Factory Formed  
Product

A diamond mesh metal lath angle used over wood lath, gypsum lath and masonry, at all angles where wall meets wall and walls meet ceiling. It reinforces these inside corners and prevents unsightly corner cracks from appearing in the plaster.

Cornerite is standard 3" x 3" x 96" long. Also available 4" x 4" and wider. Packed in bundles of 63 pieces (504 lineal feet). Weight of standard 3" size, 125 lbs. per 1,000 lin. feet. Sold only in full bundles. Painted steel or galvanized steel.



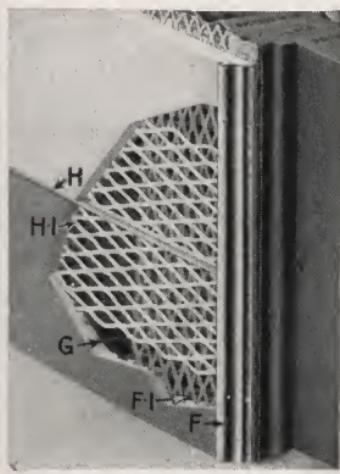
# RED TOP STRIPLATH



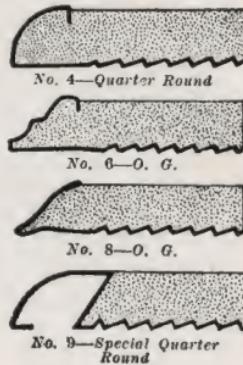
Striplath is used to cover sections of walls and ceilings where there are joints in the construction which might cause plaster cracks. Should be used around window and door frames when metal lath is not used for plaster base.

Striplath is furnished in strips 3" x 96" long. Wider widths also available. Packed in bundles of 63 pieces—equivalent of 504 lineal feet. Weight of standard 3" size, 60 lbs. per 1,000 lin. ft. Sold only in full bundles. Painted steel and galvanized steel.

# RED TOP CASINGS



(*Expanded Type*)



A sanitary, firesafe and economical steel casing for doors and windows—affording many advantages over the old-fashioned wooden casing.

Red Top Casings have expanded metal wings that provide a close, permanent plaster bond which eliminates cleavage cracks that develop at the junction of the plaster and the casing.

Four styles of moulding are available—each conservative and simple. No. 4, Quarter-Round; No. 6, O. G.; No. 8, O. G.; and No. 9, Special Quarter-Round. Profiles shown above.

**Materials**—Tight coat 24 ga. galvanized steel.

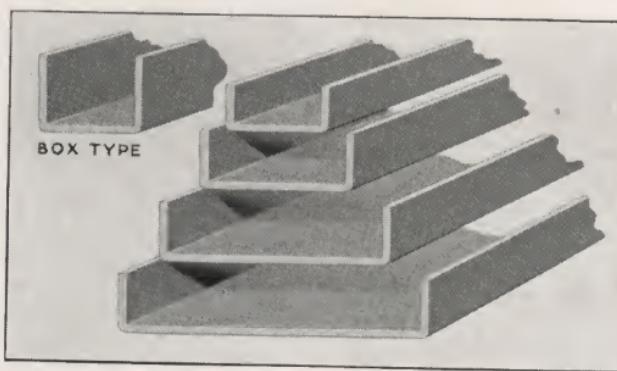
**Stock Lengths**—6, 7, 7½, 8, 9, 10 and 12 feet. Weight (all types) per 1,000 lin. ft. crated; 400 lbs. Plaster grounds—¾" standard; ½" and ⅝" on order.

No. 1 Locking Clips for attaching Casings firmly to jamb. Use 4 clips per foot.

No. 2 Casing Clip which permits nail to be placed where desired.

One Piece Stamped Mitres for Casing for true mitre joints. Made for Nos. 4, 6 and 9 style only.

# RED TOP COLD ROLLED CHANNELS



Red Top Cold Rolled Channels find a wide and ready application in most types of fireproof construction; and for many specialty uses. They are cold rolled from open hearth steel. The corners are square, and the legs and webs are perfectly straight—free from wrinkles or curvatures. They can be readily spliced and formed.

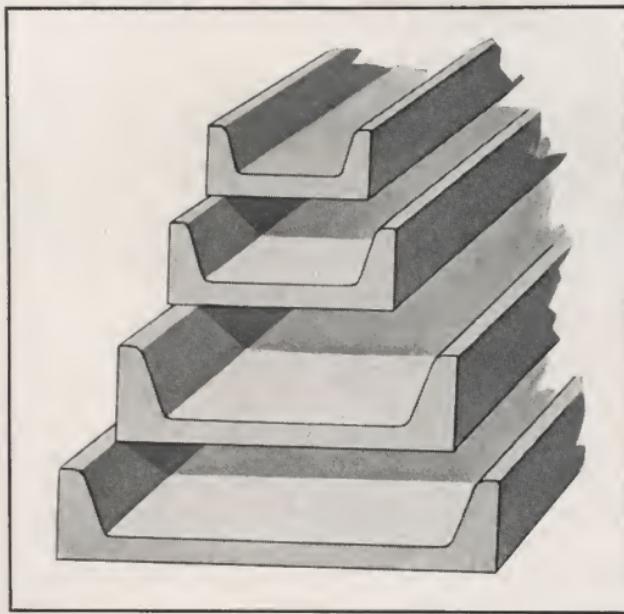
The Box Type is desirable for suspended ceilings because they do not turn over during erection. The Regular Type is for general use—furring purposes, partition work, suspended ceilings and similar uses.

All types of Red Top Channels are furnished *unpainted* unless specifically ordered otherwise. Channels can be had painted or galvanized at extra cost.

TABLE OF SIZES AND WEIGHTS

Stock Sizes	Pieces per Bundle	Weight per 1,000 Lin. Ft.	
Box Type	20	276 lbs.	Stock lengths, 14, 16, 18 and 20 feet. Furnished unpainted except on special order.
3/4" Regular	20	276 lbs.	
1" Regular	10	332 lbs.	
1 1/2" Regular	10	442 lbs.	
2" Regular	10	553 lbs.	

# HOT ROLLED CHANNELS



Hot Rolled Channels are in demand by some contractors who prefer a soft channel for some types of ornamental form work. Hot Rolled Channels are soft and even grained. They bend readily to a right angle. The tapered legs assure an even bend, without buckling.

TABLE OF SIZES AND WEIGHTS

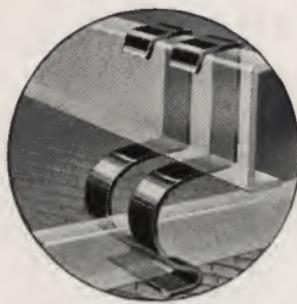
Size	Weight per Foot	Depth of Leg	Thickness of Channel
$\frac{3}{4}$ " 1"	.30 lbs. .41 lbs.	$\frac{5}{16}$ " $\frac{3}{8}$ "	.065" .070"
$1\frac{1}{2}$ " 2"	.65 and .85 lbs. 1.26 lbs.	$\frac{3}{8}$ " $\frac{1}{2}$ "	.090" $\frac{1}{8}$ "

Other sizes and weights also available.

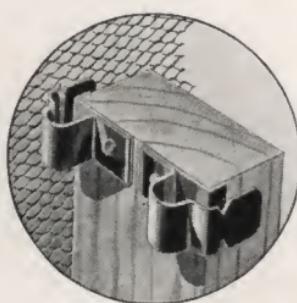
16 and 20-foot lengths carried in stock. Other lengths supplied on order. Hot Rolled Channels are shipped unpainted, unless ordered painted.

*NOTE—Hot Rolled Flats and Angles can also be furnished on special order. They are NOT stocked at any of the U S G Mills or Warehouses.*

# RED TOP METAL LATH



*Suspended Ceiling  
Using No. 100 Clip*



*Frame Construction  
Using No. 200 Clip*

**A Fireproof Plastering System  
Designed to Reduce Transmission of Sound and  
Provide Maximum Protection Against Cracks**

The Red Top Metal Lath Resilient System is an important development in metal lath plastering construction. The system, by the use of spring clips, provides a practical method for resiliently attaching and furring metal lath in virtually all types of work—wood frame construction, suspended ceilings, steel stud partitions and masonry surfaces. The resilient attachment provides a cushioning effect for the plaster finish which results in such important advantages as: 1—Insulation against transmission of sound from one room to an-

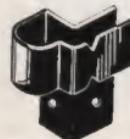
## ALL METAL LATH RESILIENT

Clip No. 100



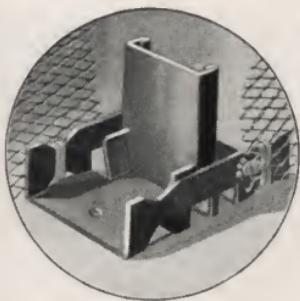
Clip No. 200

Clip No. 300

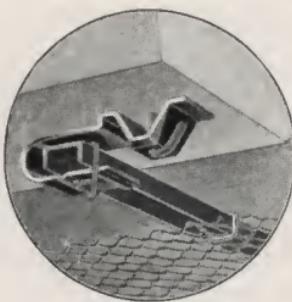


Clip No. 400

# RESILIENT SYSTEM



*Steel Partition Stud and  
Seat Uses No. 400 Clip*



*Masonry Surfaces  
Seat Using No. 500 Clip*

other; 2—Maximum protection against cracks; 3—Elimination of lath or joist streaks and discoloration from treated lumber, etc.

The system employs standard metal lath construction and is attached to supports by one or more of the resilient spring clips provided by the system and is applied by the lather.

For use in the Red Top Metal Lath Resilient System five specific metal lath attachment clips and a special stud channel stud and stud seat are offered. These materials make possible the installation of the system in practically all types of residential and commercial buildings.

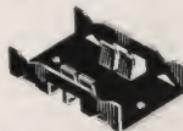
Complete information about the system is given in special booklet (ML-36) which can be had from any U S G Sales Office.

## CLIPS PAINTED BRIGHT RED

Clip No. 500



Stud Seat No. 700

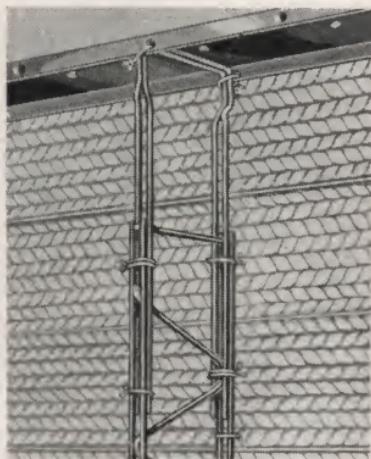


Channel Stud No. 600



# TRUSSTEEL STUDS FOR

Trussteel Stud Hollow Partitions provide many new and unique advantages over existing types of hollow partition studs. The principal features of hollow partition construction are: 1—Ease of erection; 2—Concealing pipes, conduits, etc.; 3—Lightness of weight; 4—Fireproofness; 5—Economy.

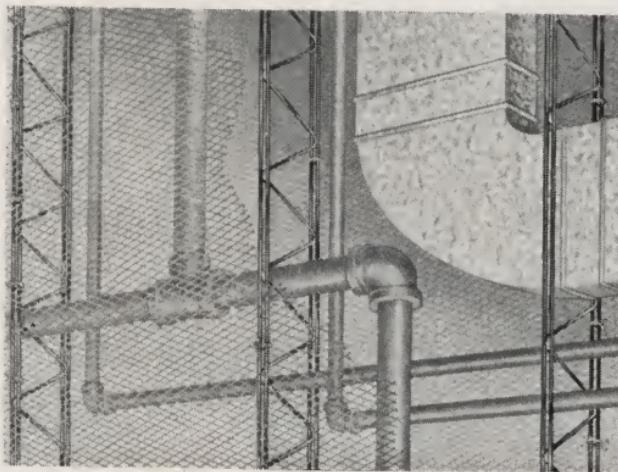


Trussteel Studs in hollow partitions provide all foregoing advantages, and in addition, other exclusive features. Most important is the new height adjustment feature for variance in ceiling heights which assures perfect fitting for rigidity and makes erection easier. The total adjustment is eight inches—two inches upward and six inches downward.

Since hollow partitions are principally used for concealing pipes, conduit, etc., Trussteel Studs offer another advantage in the fact that the open bracing of the studs provides space for ordinary conduits and small pipes. Where large ducts are to be installed horizontally, the necessary opening can be easily made by cutting the braces with Lather's snips.

The Trussteel Stud Hollow Partition system is essentially very simple and only requires the following materials: 1—Steel studs; 2—Runner tracks for supporting and aligning the partition; 3—Red Top Metal Lath of the type and weight suited to the construction, and lathing accessories. The system is applied by the lather with standard lather's tools.

# HOLLOW PARTITIONS



## STOCK SIZE OF TRUSSTEEL STUDS

*Lengths*—Single piece lengths of 6' 6" to 14 feet inclusive, in increments of 6 inches. The adjustable feature on each of these lengths permit adjustment from six inches under to two inches over the stock length purchased.

Requirements of from 14 foot to 20 foot lengths will be supplied in two sections which will consist of an 8-foot section, with splicing attachment, plus a regular stud section of the required length to make a total up to a 20-foot combined length, in increments of 6 inches.

Requirements of more than 20-foot lengths will be figured and supplied special on application.

*Widths*—2, 3, 3 $\frac{1}{4}$ , 4 and 6 inches. Five popular sizes to meet average requirements. Packed in bundles of convenient size to fit order requirements.

**RUNNER TRACKS**—Made in eight-foot, two-inch lengths. Packed in bundles of convenient size to fit order requirement.

## SHIPPING WEIGHTS PER 1,000 LIN. FEET

Size	Studs	Runner Tracks
2"	375 lbs.	250 lbs.
3"	400 lbs.	333 lbs.
3 $\frac{1}{4}$ "	405 lbs.	354 lbs.
4"	425 lbs.	417 lbs.
6"	475 lbs.	583 lbs.

Ask for Trussteel Stud Booklet ML-41

# RED TOP METAL ARCHES



## READY-FORMED—ECONOMICAL

The Red Top Metal Arch provides a unit plaster base of symmetry and uniformity for all types of plastered arched openings. It is nailed to the rough bucks over the lath, and in one operation the plastering base and corner bead are in place, ready for the plasterer.

Red Top Metal Arches are made to fit partitions where 2 x 4's are used for rough bucks (can also be extended or special sizes made for wider bucks). They are easily and quickly erected over any type of lath. The perfect-nosed, beaded edge furnishes a true ground line for the plasterer. The perforated flanges afford excellent keying qualities for the plaster and protect the plaster from cracking.

Builders report that Red Top Metal Arches save about 50% on the cost of built-in-place arches.

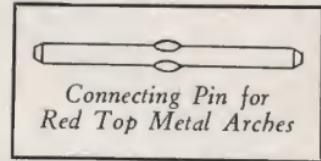
# RED TOP METAL ARCHES

They eliminate two difficult operations—the construction of curved wooden forms and the forming of corner bead around curves.

Red Top Metal Arches are furnished in six standard sizes which can be adapted to practically all types of openings up to 72 inches. Units can also be interchanged to many combinations. In remodeling work, the arches can be easily altered by cutting down to fit existing construction.

Red Top Metal Arches are fabricated from "Galvannealed" sheet steel, a specially treated material that has high rust-resisting properties.

Connecting Pins for joining arch units, packed in an envelope, are now included with each set of arches.



*Inquire for Booklets ML-19 and ML-23*

## HOW TO ERECT METAL ARCHES

A practical method for erecting Red Top Metal Arches is:

1—Assemble units of arch on floor; 2—Join units by inserting the Connecting Pins half-way in the throat of the corner bead of each unit; 3—Strike exact center of the opening header; 4—Insert assembled arch in the opening (over the lath) and tack each side at center of header; 5—Level arch and nail securely through the solid metal parts of the flange with lathing nails; 6—Fit vertical corner bead to arch by joining with Connecting Pins, same as done with arch units. When arches are to be used in smaller or larger openings than standard sizes, the units can easily be altered.

*Sizes and packing details on the following pages.*

# RED TOP METAL ARCHES

## SIX STANDARD SIZES



No. 11—10 inch radius, true circle. Two pieces to set.

No. 22— $15\frac{3}{4}$ -inch radius, true circle. For 2' 6" openings.  
2 pieces to the set. (Space studs 33 inches apart.)



No. 33—Gothic Design for 2' 6" openings. Four pieces to the set. (Space studs 33 inches apart.)

No. 44—Gothic Design for 4' openings. Four pieces to the set. (Space studs 51 inches apart.) Can easily be cut down to fit a 3' 6" doorway.



No. 55—Elliptic Design for 5' openings. Four pieces to the set. (Space studs 63 inches apart.)

No. 66—Elliptic Design for 6' openings. Four pieces to the set. (Space studs 72 inches apart.)

*NOTE—In new construction, stud spacing for Nos. 33, 44 and 55 arches should be three inches greater than the width of finished doorway. This is advisable since the recommended stud spacing conforms to stock millwork sizes.*

# RED TOP METAL ARCHES

## COMBINATION DESIGNS

The standard arch units can be used effectively in combinations to achieve unusual architectural plastered arch effects. The illustration below suggests one method. Note from caption how design was made. Red Top Metal Arch units are also ideal for small wall recesses, circular designs, etc.



*One set each No. 11 and 22 metal arches were used in this 4-foot doorway design. It was obtained by cutting 9 inches from both No. 22 arches.*

## PACKING DATA

Red Top Metal Arches are packed in strong corrugated cartons to assure their reaching the consumer in good condition. Arches are now packed in individual cartons containing one set only. The former packing of five-set cartons has been discontinued. Red Top Metal Arches packed in one-set cartons affords distinct advantages to the dealer and consumer.

Approximate shipping weight per carton is as follows:  
No. 11, 4 lbs.; No. 22, 6 lbs.; No. 33, 5 lbs.; No. 44, 6 lbs.; No. 55, 7 lbs.; No. 66, 8 lbs.

Manufactured under license of Merryweather patent No. 1782147  
granted November 18, 1930.

# LATHING SUNDRIES

## TIE WIRE

A fine quality galvanized annealed tie wire possessing great strength and yet having sufficient pliability to facilitate rapid erection of lathing construction.



Ga.	Lbs. per M Ft.	Packings
18 ga.	6.	25 lb. Hanks*
18 ga.	6.	15 lb. 28" Straight lengths
18 ga.	6.	25 lb. "Chicago Special" hanks, 28 to 32" cut lengths.
18 ga.	6.	50 & 100 lb. Coils
16 ga.	10.4	50 & 100 lb. Coils
14 ga.	17.1	50 & 100 lb. Coils
9 ga.	58.7	50 & 100 lb. Coils

\*Cut lengths 36 to 46 inches.

## PENCIL RODS



These mild steel, pliable rods are used extensively for hangers and furring in metal lath construction. Furnished in these sizes and weights in 16-foot lengths:

$\frac{3}{16}$ " .....	94 lbs. per M feet
$\frac{7}{32}$ " .....	128 lbs. per M feet
$\frac{1}{4}$ " .....	167 lbs. per M feet

Packed 50 pieces to the bundle.

# LATHING SUNDRIES

## NAILS AND STAPLES



The following items are furnished as a convenience to the trade. These are used more extensively in metal lath erection.

4d Blued Nails.....	100 lb. Kegs
$\frac{1}{2}$ " and $\frac{3}{4}$ " Concrete Stub Nails.....	50 lb. Kegs
1" Blued Staples.....	100 lb. Kegs
$1\frac{1}{4}$ " Blued Staples.....	100 lb. Kegs

Red Top Economy Stucco Nails (see page 15 for details).



## GALVANIZED CORRUGATED WALL TIE



Used for bonding brick or stone veneer to wood frame structures and for bonding face brick, stone, terra cotta, and tile to concrete or other masonry surfaces. These ties are made of galvanized steel,  $\frac{3}{4}$ -inch by 7 inches in size, packed in boxes of 1,000. Each box weighs approximately 32 pounds.

# LATHING SUNDRIES

## ATTACHMENT CLIPS



No. 1—*Lath Clip*



No. 1 1/2-A—*Channel Clip*

No. 1—Lath Clips (for attaching Diamond Mesh or Flat Rib Lath to  $\frac{3}{4}$ " Channels)—1,000 pcs. per box—25 lbs.

No. 2—Lath Clips (for attaching  $\frac{3}{8}$ " Rib Lath to  $\frac{3}{4}$ " Channels)—1,000 pcs. per box—25 lbs.

No. 3—Lath Clips (for attaching  $\frac{3}{8}$ " Rib Lath to steel joists)—1,000 pcs. per box—30 lbs.

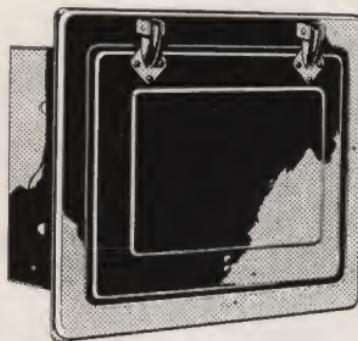
No. 1 1/2-A—Channel Clips (for attaching  $\frac{3}{4}$ " Channels to  $1\frac{1}{2}$ " Channels)—500 pcs. per box—35 lbs.

No. 1 1/2-B—Channel Clips (for attaching 1" Channels to  $1\frac{1}{2}$ " Channels)—500 pcs. per box—35 lbs.

No. 2-A—Channel Clips (for attaching  $\frac{3}{4}$ " Channels to 2" Channels)—500 pcs. per box—38 lbs.

No. 2-B—Channel Clips (for attaching 1" Channels to 2" Channels)—500 pcs. per box—38 lbs.

# RED TOP COAL DOORS



## BUILT FOR LASTING SERVICE

Coal doors are standard equipment in residences and other buildings. Building owners need them for the protection they afford to foundation walls and against intrusion.

The Red Top Coal Door possesses great strength, is damage-proof, burglar-proof and storm-proof. The construction throughout is of pressed steel (not cast) and is made exclusively from heavy steel tank plate.

The self-closing lock is positive and exceptionally strong. The heavy door is accurately fitted and contacts uniformly with the frame. The sturdy hinges are of pressed steel construction also. These features provide maximum security against intruders and assure perfect weathering.

The Red Top Coal Door is ready for immediate installation in all types of construction. It is complete with all fittings attached and is painted black. It requires a masonry opening 22 $\frac{1}{4}$  inches wide by 16 $\frac{1}{2}$  inches high and a wall thickness of 8 inches.

The Red Top Coal Door is made in one standard size only and weighs 35 pounds.

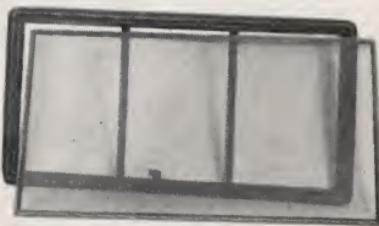
*Inquire for Booklet ML-8*

# RED TOP BASEMENT SASH

Red Top Basement Sash provide the modern home with the maximum daylight, superior ventilation, and additional security. These sash are attractive, weather-proof, trouble-free, and easy to operate.

Red Top Basement Sash are furnished in Top Ventilating and Bottom Ventilating types, illustrated on page 41, and have jamb angles on both ends to assure easier and better installation. The cam-action hook draws the ventilator tight against the frame and hooded weep holes allow condensation to drain off.

## SCREENS FOR SASH



Note the neat, trim lines of Red Top Basement Sash Screens of galvanized wire. These are available for use with all sizes of Red Top Basement Sash at a slight extra cost. They are easily and quickly attached with two small bolts. The rigidity of the metal frame permits a snug fit on the sash without interfering with the movement of the ventilator.

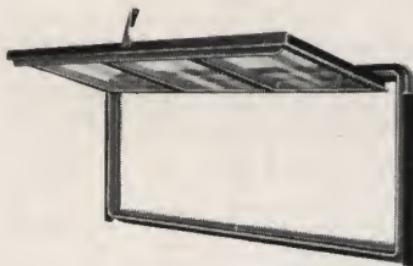


## CLIPS FOR GLAZING

This detail shows how the glass is held in position against cork strips on the "putty-less" style of sash. The same clips are used to hold the glass while the putty is being applied on the "putty" style of sash.

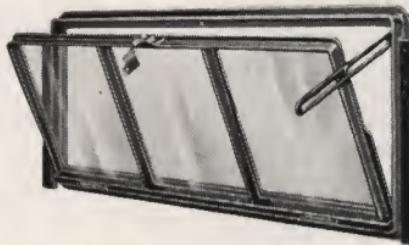
# RED TOP BASEMENT SASH

Five Standard Sizes—Four Styles



## BOTTOM VENTILATING SASH

Style Number		Masonry Opening	Size of Glass	Lights	Weight per Sash
“Putty Glazing”	“Putty-less”				
701	711	32 $\frac{3}{4}$ " x 15 $\frac{1}{4}$ "	10 x 12"	3	18
702	712	38 $\frac{3}{4}$ " x 21 $\frac{1}{4}$ "	12 x 18"	3	23
703	713	32 $\frac{3}{4}$ " x 23 $\frac{1}{4}$ "	10 x 20"	3	22
704	714	30 $\frac{3}{8}$ " x 23 $\frac{1}{4}$ "	14 x 20"	2	20
705	715	32 $\frac{3}{4}$ " x 17 $\frac{1}{4}$ "	10 x 14"	3	20



## TOP VENTILATING SASH

Style Number		Masonry Opening	Size of Glass	Lights	Weight per Sash
“Putty Glazing”	“Putty-less”				
721	731	32 $\frac{3}{4}$ " x 15 $\frac{1}{4}$ "	10 x 12"	3	18
722	732	38 $\frac{3}{4}$ " x 21 $\frac{1}{4}$ "	12 x 18"	3	23
723	733	32 $\frac{3}{4}$ " x 23 $\frac{1}{4}$ "	10 x 20"	3	22
724	734	30 $\frac{3}{8}$ " x 23 $\frac{1}{4}$ "	14 x 20"	2	20
725	735	32 $\frac{3}{4}$ " x 17 $\frac{1}{4}$ "	10 x 14"	3	20

# RED TOP SPECIALTIES

## PLAIN RIDGE ROLL



A perfect fitting, neat ridge roll. Accurately formed from prime galvanized sheets. The nailing flange makes application easy and quick. Stock sizes: 7-inch girth, 1 $\frac{1}{4}$ -inch roll; 8-inch girth, 1 $\frac{1}{2}$ -inch roll; 10-inch girth, 2-inch roll. Furnished in 10-foot lengths. Packed in crates or bundles of 25 pieces.

## GLOBE FINIALS



*For Use With  
Red Top Plain  
Ridge Roll*

A snug fitting, true finial for use with ridge roll. No solder is used in forming this finial. The seams will not open. Made from prime galvanized sheets. Furnished for 1 $\frac{1}{4}$ , 1 $\frac{1}{2}$  and 2-inch ridge roll.

# SHELF-X

(Flat Surface Expanded Steel Sheets)

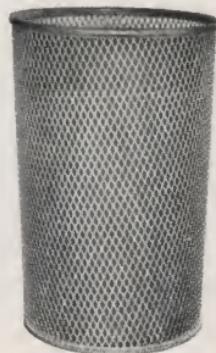


## A NEW OPEN MESH MATERIAL

Shelf-X\* is a continuous fabric of flat, uniformly shaped diamond meshes fabricated from open hearth steel. It is recommended for use wherever a sturdy, smooth-strand, open mesh steel fabric can be advantageously used. It is widely used for shelving purposes by manufacturers of electric refrigerators and for oven racks and grills by manufacturers of stoves and ranges. (Patent No. 1961144).

Shelf-X is ideally suited for many other uses requiring an open mesh steel fabric. Some of these uses are laundry baskets, food baskets, ventilating grills, drying trays, air filters, fan guards, locker shelves and doors, household appliances, and similar uses.

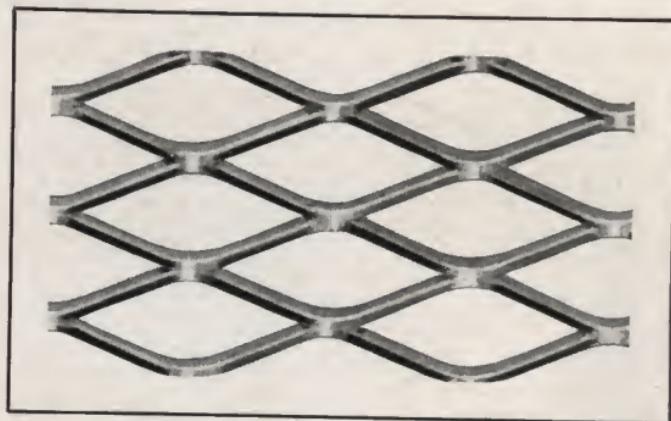
Style Number	Size of Sheets	Weight Per Sq. Ft.
1½" No. 16		.32 lb.
1½" No. 13		.65 lb.
1" No. 16	Furnished in Stock Size Sheets	.47 lb.
¾" No. 16	3 x 8 ft. and	.57 lb.
¾" No. 13	4 x 8 ft.	.87 lb.
½" No. 18		.70 lb.
½" No. 16		.87 lb.



A complete Shelf-X catalog showing its many varied uses will be sent on request. Ask for booklet ML-43.

\* Reg. Trademark

# RED TOP EXPANDED



Red Top Expanded Metal (Econo Mesh) is a fabricated diamond mesh steel material of high elasticity. Its uniformly-shaped diamond meshes range in size from 3 x 8 inches to  $\frac{1}{2} \times 1\frac{3}{16}$  inches.

The large meshes are extensively used as the reinforcement for many types of concrete slab work of moderate span and load.

The smaller meshes present an ideal open mesh material which is readily adapted to many industrial uses. Most important of these are open partitions, window guards, machine guards, etc.

In concrete work Red Top offers marked advantages over reinforcing systems composed of tied or interlaced units. Some of its many advantages are: 1-Ease and rapidity with which it can be properly placed by unskilled workmen and with less supervision. 2-Lightens the designer's responsibility, because the correct amount of steel is determined at the time of manufacture, and cannot be altered by careless workmen. 3-Provides a perfect bond, minimizing shocks, concentrated loading, etc., as stresses are evenly distributed over entire area. 4-Large sheets of convenient size, which lie flat without stretching.

# METAL (ECONO MESH)



*Roads and Sidewalks*



*Loading Platforms*



*Concrete Culverts*



*Walls (Gunited)*

## CONCRETE REINFORCING USES

The more popular uses for Red Top Expanded Metal are for reinforcing concrete floors and roof slabs of moderate span and load, porch floors, foundations, culverts, loading platforms, small bridges, sea walls, tanks, vaults, retaining walls, reservoirs, etc. Expanded Metal is an ideal base and reinforcement for concrete work that is applied with a "Gunite" machine. The lightweight  $1\frac{1}{2}$  and 3 inch meshes are particularly adapted for beam wrapper and as a floor binder.

On page 48 are given in table form, stock meshes and sizes of sheets in which Red Top is available. To aid the engineer, sectional areas of each style of mesh are given as a part of the style number.

Recommendations for the use of Red Top Expanded Metal in the various types of reinforced concrete slab work can be had upon application to the U S G sales office nearest you.

# EXPANDED METAL

## (ECONO MESH)

### STOCK SIZES AND WEIGHTS

Style Number		Weight per Sq. Ft. Lbs.	Widths of Sheets Short Way of Mesh	Lengths of Sheets Long Way of Mesh
New Designa- tion	Former Designa- tion			
<b>CONCRETE REINFORCING MESHES</b>				
3-13-075	075-3	.25	6' 4"	8, 10 & 12'
3-13-10	10-3	.34	7' 0"	8, 10 & 12'
3-13-125	125-3	.42	5' 8"	8, 10 & 12'
3- 9-15	15-3	.51	7' 0"	8, 10 & 12'
3- 9-175	176-3	.60	6' 0"	8, 10 & 12'
3- 9-20	20-3	.68	5' 3"	8, 10 & 12'
3- 9-25	25-3	.85	4' 2½"	8, 10 & 12'
3- 9-30	30-3	1.02	7' 0"	8, 10 & 12'
3- 9-35	35-3	1.19	6' 0"	8, 10 & 12'
3- 4-40	40-3	1.36	4' 7"	8 & 12'
3- 4-45	45-3	1.53	4' 1"	8 & 12'
3- 4-50	50-3	1.70	7' 4"	8 & 12'
3- 4-55	55-3	1.87	6' 8"	8 & 12'
3- 4-60	60-3	2.04	6' 1½"	8 & 12'
2¼-13-10	10-2¼	.34	7' 0"	8, 10 & 12'
2¼-13-15	15-2¼	.51	4' 8"	8'

### SPECIAL MESHES FOR INDUSTRIAL USES

1½" No. 18	06-1½	.25	4' 0"	8' 0"
1½" No. 16	12-1½	.41	4' 0"	8' 0"
1½" No. 13	18-1½	.65	4' 0" & 6' 0"	8' 0"
1½" .68 lb.	.....	.68	4' 0" & 6' 0"	8' 0"
1½" No. 10	24-1½	.79	4' 0" & 6' 0"	8' 0"
1½" No. 9	375-1½	1.19	6' 0"	8' 0"
¾" No. 16	15-¾	.57	6' 6"	8' 0"
¾" No. 13	24-¾	.87	4' 0" & 6' 0"	8, 10 & 12'
¾" No. 10	35-¾	1.19	4' 0"	8' 0"
¾" No. 9	53-¾	1.80	4' 0"	8' 0"
½" No. 18	20-½	.70	4' 0" & 6' 0"	8' 0"
½" No. 16	24-½	.87	4' 0" & 6' 0"	8' 0"

**Symbols:**—1st figure indicates size of mesh (short way of diamond). 2nd figure indicates approximate gauge of steel. 3rd figure (of Concrete Reinforcing Meshes) indicates cross sectional area of steel per foot of width:—

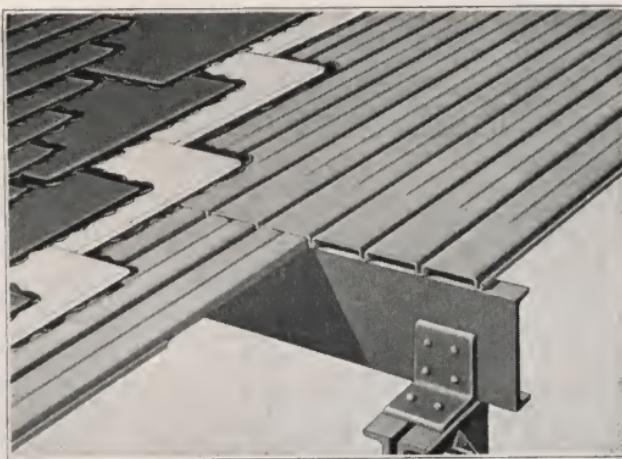
**Example:**—Style 3-9-20, 3" mesh; 9 gauge; .20 square inches cross sectional area of steel per foot of width.

**Mesh Sizes:**—3" mesh—3"x8"; 2¼" mesh—2¼"x6"; 1½" mesh—1¾"x3½"; ¾" mesh—¾"x2½"; ½" mesh—½"x1 3/16".

The above material will be shipped in compact bundles of convenient size and weight for handling, wired together and tagged.

Special size sheets will be furnished on order at a small extra charge.

# USG STEEL ROOF DECKS



U S G Steel roof Decks are composed of steel plates applied directly to steel purlins or bar joists and secured with U S G standard attachment clips. Over the deck, insulation board and roofing paper are applied. U S G Steel Roof Decks have many advantages over other types of roof decks. Great strength, rapid erection, low cost and light weight are the outstanding features.

The plates are full interlocking and the ends lap without distortion. This provides perfect drainage. The plates are formed on modern cold forming equipment and can be had in three gauges of copper bearing steel either painted gray or galvanized. Eighteen-inch widths are standard.

The plates for U S G Steel Roof Decks are fabricated especially for each job. Engineering data and prices can be had from any U S G Sales Office.

*Ask for Booklet CD-5*

Gauge No.	Lbs. per Sq. Ft.	Allowable Spans
22	2.00	up to 6 ft.
20	2.40	up to 7 ft.
18	3.20	up to 8 ft.

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**MEMORANDUM**

# **MEMORANDUM**

## DEALER SERVICE

Stocks of Red Top Metal Lath and Lathing Accessories are maintained at the following USG Plaster Mills and Warehouses to better serve the Dealer. Requirements can be shipped in mixed cars with other USG Products.

- Atlanta, Ga.
- Boston, Mass.
- Buffalo, N. Y., (*Black-Rock*)
- Chicago, Ill.
- Cleveland, Ohio
- Detroit, Mich.
- East Chicago, Ind.
- Fort Dodge, Iowa
- Gypsum, Ohio
- Harrison, N. J.
- Kansas City, Mo.
- Long Island City, N. Y.
- Los Angeles, Calif.
- Miami, Fla.
- Milwaukee, Wis.
- New Brighton, S. I., N. Y.
- New York City, Bronx
- Oakfield, N. Y.
- Piedmont, S. D.
- Philadelphia, Pa.
- Plasterco, Va.
- San Francisco, Calif.
- Warren, Ohio



U.S.  
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